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## Document details

**Title** Detection of cow raw milk contamination by *Brucella abortus* in Ardabil region of Iran by ELISA method.

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**Authors** Ghazani, M. H. M.

**Editors** Köfer, J.;Schobesberger, H.

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## Abstract

Brucellosis is a zoonotic disease caused by gram-negative bacteria *Brucella* that are pathogenic for a wide variety of animals and human beings. Brucellosis, in particular, is easily transmitted via raw milk. Despite its control in many countries, it remains endemic in Iran. The transmission of *Brucella* from infected animals to humans occurs

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either by occupational contact or the consumption of contaminated animal products, especially milk, cream and fresh cheese. The purpose of this study was to evaluate the prevalence of cow raw milk contamination by *Brucella abortus* in Ardabil region, located in north west of Iran. A total of 100 cow raw milk samples were collected randomly from Ardabil suburbs dairy farms from September 2010 to December 2010. ELISA was performed using commercial ELISA brucellosis milk screening kit (Pourquier, France). An average prevalence rate of 4% was found in cow raw milk in Ardabil region. It is concluded from the current study that brucellosis is prevalent in cattle in Ardabil district, where animal breeding is common. Preventive and control measures should immediately and strictly be implemented to protect animals and humans from brucellosis.

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Subject Category  
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LL110 - Dairy Animals

LL821 - Prion, Viral,  
Bacterial and Fungal  
Pathogens of Animals,  
(New March 2000)

QQ010 - Milk and Dairy  
Produce

QQ200 - Food  
Contamination, Residues  
and Toxicology

VV210 - Prion, Viral,  
Bacterial and Fungal  
Pathogens of Humans,  
(New March 2000)

ZZ900 - Techniques and  
Methodology

Organism descriptor

Brucella abortus

cattle

Descriptor

bacterial diseases

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**dairy cattle**  
**dairy cows**  
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**detection**  
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**ELISA**  
**food contamination**  
**infections**  
**microbial contamination**  
**milk**  
**raw milk**

#### **Identifier**

**bacterial infections**  
**bacterioses**  
**bacterium**  
**enzyme linked  
immunosorbent assay**  
**food contaminants**

#### **Broad term**

**Brucella**  
**Brucellaceae**  
**Rhizobiales**  
**Alphaproteobacteria**  
**Proteobacteria**  
**Bacteria**  
**prokaryotes**  
**Bos**

**Bovidae**

**ruminants**

**Artiodactyla**

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